

Patent Abstracts of Japan

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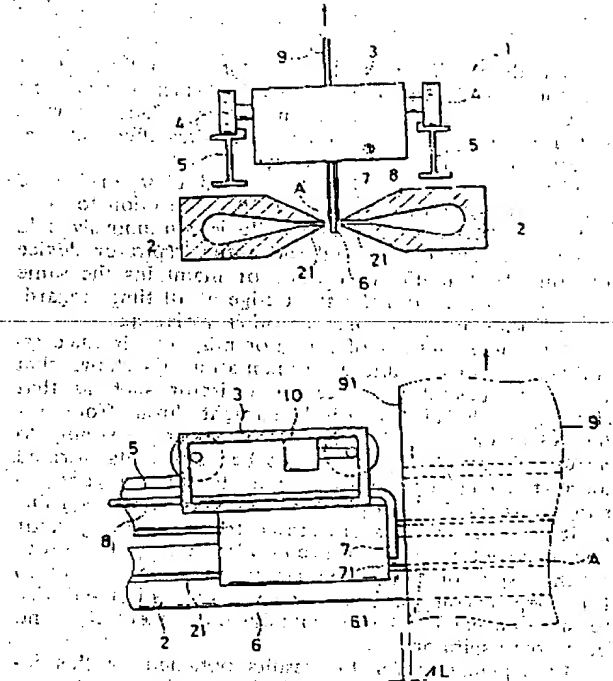
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INVENTOR : EBATA SADAO;

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TITLE : GAS WIPING DEVICE



ABSTRACT : PURPOSE: To uniformize the amt. of molten metal to be deposited on a strip in its cross direction by injecting a gas onto the front and rear of the continuously traveling strip, and providing a mechanism for injecting a gas in the upstream direction of both edges of the strip.

CONSTITUTION: A band steel 9 pulled up from the molten metal in a hot dipping bath is continuously traveled to the upper part, and a gas at a constant pressure is injected onto the front and rear of the steel from the slit injection ports 21 of wiping nozzles 2 to adjust the amt. of molten metal on both surfaces of the band steel 9. Meanwhile, a truck 3 traveling in the cross direction of the band steel 9 on beams 5 extending in the cross direction of the band steel 9 through its wheels 4 is provided above the wiping nozzle; and moved back and forth. A shielding plate 6 is fixed to the lower part of the truck 3 to prevent the mutual intervention of the gases injected from the wiping nozzles 2. An edge wiping nozzle 7 is provided between the inner edge 61 of the shielding plate 6 and the edge 91 of the band steel 9 to inject the gas from its injection port 71 toward the upstream side in the traveling direction of the band steel. By this method, the overcoating of the edge is prevented, and the deposition of splashes is controlled.

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